



SC ASCEM 2021 Spring Virtual Conference

Kershaw County School – Project Case Study

May 26, 2021

TRANE
TECHNOLOGIES

Trane Technologies – Kershaw County Schools



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Agenda

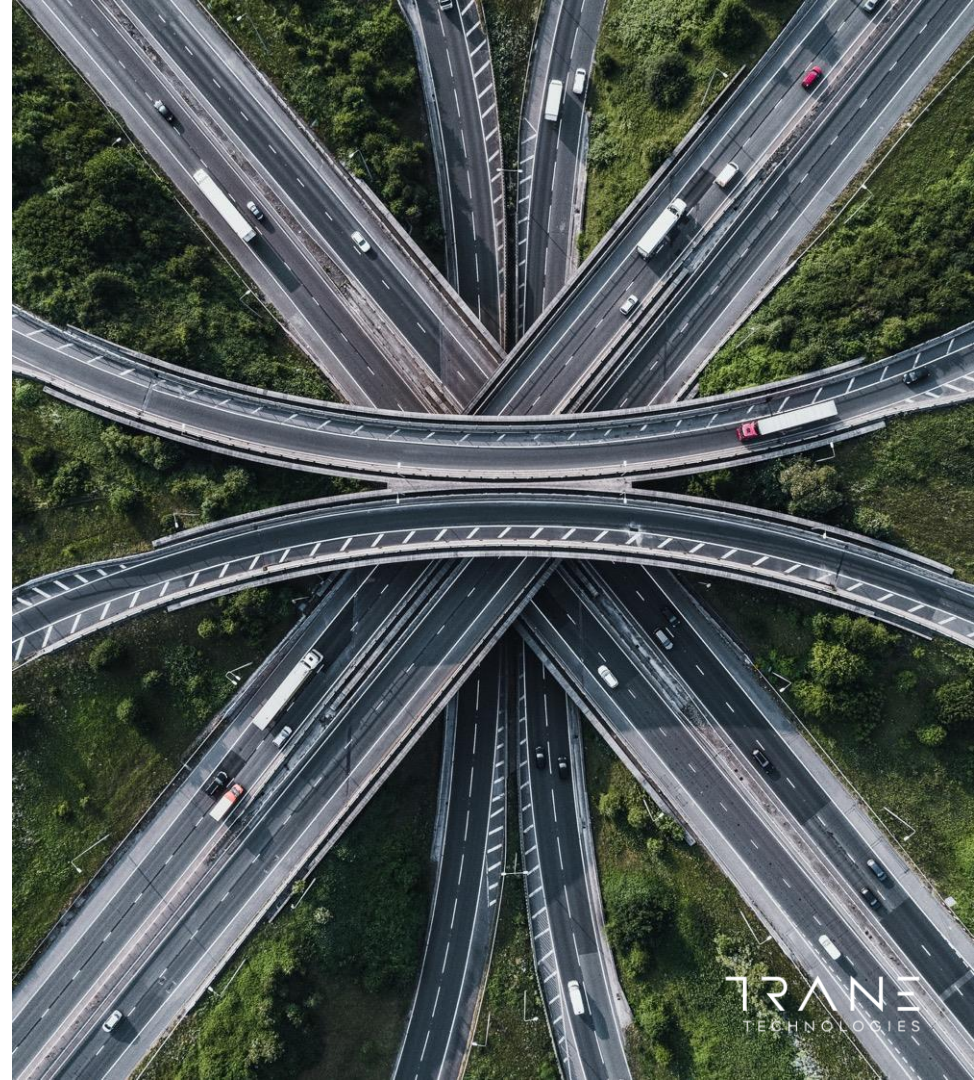
- **Trane Technologies Back-Ground**
- **Products Services and Offerings**
- **South Atlantic Region Overview**
- **Kershaw County School Project Overview**
- **Questions?**



Trane Technologies solves sustainability challenges through innovation in the heating and cooling industries and Energy Services

Trane Technologies (NYSE:TT) is a global climate innovator. Through our strategic brands Trane® and Thermo King®, and our portfolio of environmentally responsible products and services, we bring efficient and sustainable climate solutions to buildings, homes, and transportation.

- 16.6 Billion in Revenue
- 42,000 Employees Globally
- Manufacturing Plant in Columbia/Blythwood SC
- 528 Facilities in the US



Performance Contracting Experience

Southern Atlantic Region

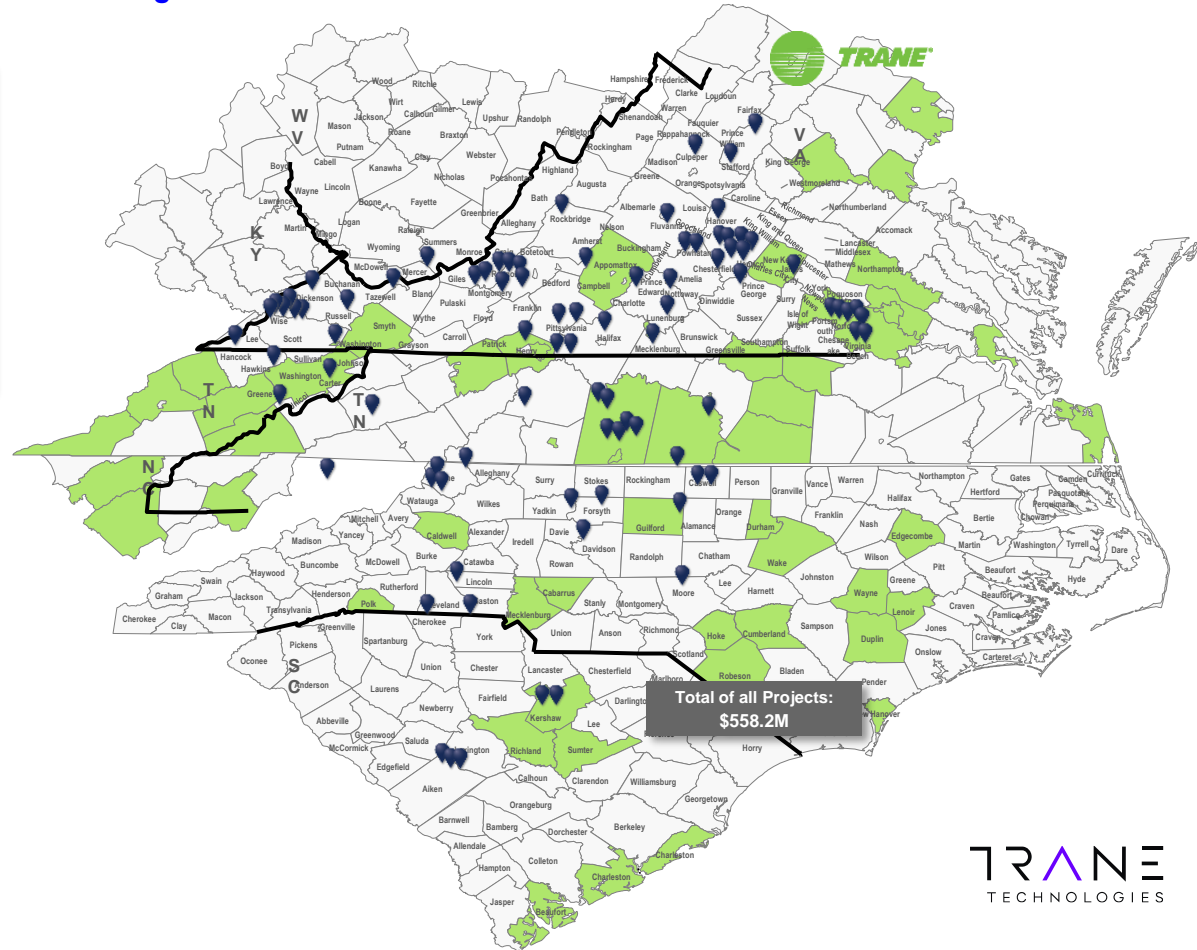
34 -Federal Projects = \$347MM

2- Health Care Projects = \$8.6MM

15- Higher Ed Projects = \$ 47MM

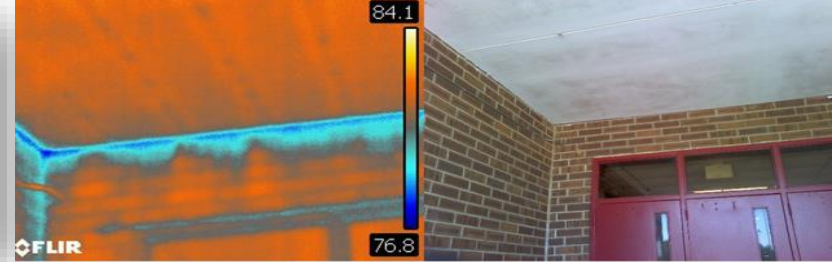
31- K-12 Projects = \$ 155.6MM

82- Projects for \$ 558.2 MM since 2004

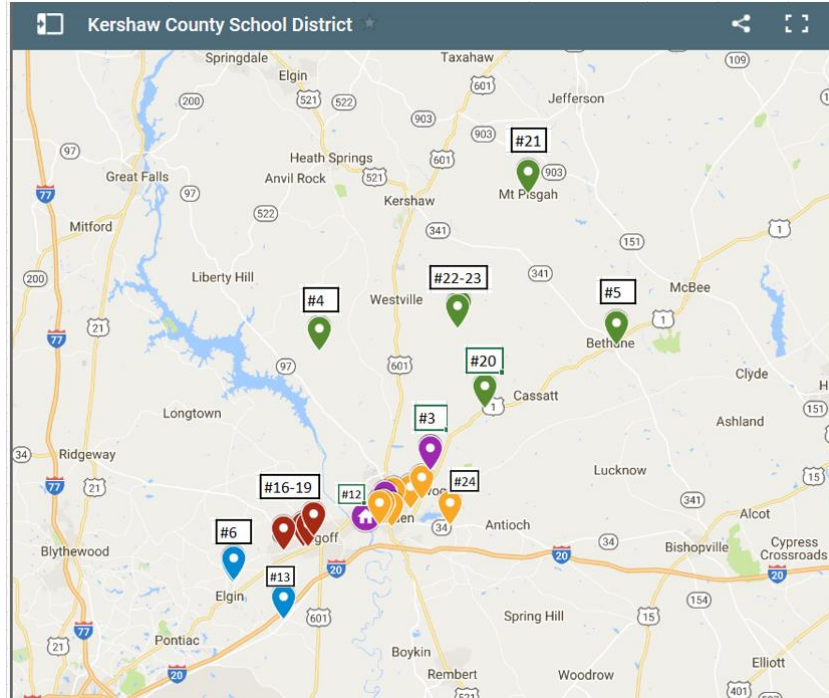


Typical Energy Savings Measures (ECMs)

| Efficiency Measure |
|---|
| LED Lighting |
| HVAC Equipment Controls |
| Building Envelope |
| Building Controls |
| Water and Sewer Conservation |
| Transformer Replacements |
| Solar PV and Hot Water Thermal |
| Grant Writing Support |
| IAQ for HVAC and "In- Classroom" Solutions |
| Retro Commissioning |



6 Trane Technologies – Kershaw County Schools, SC



21 Public Schools

10,500 Students

Facility Equalization

Excellent Leadership

High Ranking Student Achievement

Growing County

3 new Schools and New Technology Center

Performance Contract with Trane for \$13.8M

Project Statistics – Kershaw County Schools

Project Cost: \$13.8MM

Total Annual Savings: \$572,399

18 Year Financing

Lighting LED Scope:

Lighting : 15,577 Center basket (classrooms) and 29,908 retrofits

HVAC Scope:

Stover Middle School : 52 classroom package heat pumps, 2 large splits gym, 23 splits system heat pumps

Doby's Mill and Pine Tree ES : 51 split systems, 5 Dedicated OA Units and 3 RTUs

North Central Middle: 16 packaged RTU's, 5 Dedicated Outside Air Units, 21 splits systems.

Jackson ES : 2 Lochinvar Crest Condensing Boilers

District Wide Building Controls with Control Management Inc. (CMI)

District Wide Low Flow Water Conservation

Weatherization
Insulation and Building Envelope

Coordination with OSF

Kershaw County School District Lighting



Kershaw County Schools HVAC and Weatherization



**Site photos of
HVAC**

- **Package Units**
- **Split Systems**
- **Condensing Boilers**



Questions



Performance Contracting



Partnership



Schedule



Needs
Assessment



A/E
Selection



Feasibility
Study



ECMs &
FIMs



Energy
Audit



Cost
Analysis



Funding



Procurement